

SEQUENCE LISTING

<110> Anthony P. Heaney
Gregory A. Horwitz
Xun Zhang
Shlomo Melmed

<120> Methods of Using Pituitary Tumor
Transforming Gene (PTTG) Carboxy-terminal Peptides to
Inhibit Neoplastic Cellular Proliferation And/Or
Transformation of Breast and Ovarian Cells

<130> CEDAR-45257

<140> NOT ASSIGNED

<141> 2000-12-04

<150> US CIP 09/687,911

<151> 2000-10-13

<150> US CIP 09/569,956

<151> 2000-05-12

<150> US 08/894,251

<151> 1999-07-23

<150> PCT/US97/21463

<151> 1997-11-21

<150> US 60/031,338

<151> 1996-11-21

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 974

<212> DNA

<213> Rattus rattus

<400> 1

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gcgtttatga ccctggcgtg aagatttaag gtctggatta agcctgttga cttctccagc 180
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gactctgagt gtgaaaaaga tcaccgagaa gtctactaag acacaaggct ctgctcctgc 600
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tctgcagaag cccttcctac cgtgggaatc tgatccgttg ccgtctcctc ccagcgcctt 840
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<210> 2
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<212> PRT
<213> Rattus rattus

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Arg Leu Ala Ser Lys Asp Gly Leu Lys Leu Gly Ser Gly Val Lys Ala
20 25 30
Leu Asp Gly Lys Leu Gln Val Ser Thr Pro Arg Val Gly Lys Val Phe
35 40 45
Gly Ala Pro Gly Leu Pro Lys Ala Ser Arg Lys Ala Leu Gly Thr Val
50 55 60
Asn Arg Val Thr Glu Lys Pro Val Lys Ser Ser Lys Pro Leu Gln Ser
65 70 75 80
Lys Gln Pro Thr Leu Ser Val Lys Lys Ile Thr Glu Lys Ser Thr Lys
85 90 95
Thr Gln Gly Ser Ala Pro Ala Pro Asp Asp Ala Tyr Pro Glu Ile Glu
100 105 110
Lys Phe Phe Pro Phe Asp Pro Leu Asp Phe Glu Ser Phe Asp Leu Pro
115 120 125
Glu Glu His Gln Ile Ser Leu Leu Pro Leu Asn Gly Val Pro Leu Met
130 135 140
Ile Leu Asn Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Asp Pro
145 150 155 160
Pro Ser Pro Leu Gln Lys Pro Phe Leu Pro Trp Glu Ser Asp Pro Leu
165 170 175
Pro Ser Pro Pro Ser Ala Leu Ser Ala Leu Asp Val Glu Leu Pro Pro
180 185 190
Val Cys Tyr Asp Ala Asp Ile
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<210> 3
<211> 779
<212> DNA
<213> Homo sapiens

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ggaaaatgga gaaccaggca cccgtgtggt tgctaaggat gggctgaagc tggggctctgg 180
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gttcgatgcc ccaccagcct tacctaaagc tactagaaag gctttgggaa ctgtcaacag 300
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tgccaaaaag atgactgaga agactgttaa agcaaaaagc tctgttcctg cctcagatga 420
tgcctatcca gaaatagaaa aattctttcc cttcaatcct ctagactttg agagttttga 480

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 ggatgttgaa ttgccacctg tttgctgtga catagatatt taaatttctt agtgcttcag 720
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<210> 4
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 4
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 Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys
 35 40 45
 Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu
 50 55 60
 Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro
 65 70 75 80
 Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Glu Lys
 85 90 95
 Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro
 100 105 110
 Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe
 115 120 125
 Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val
 130 135 140
 Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln
 145 150 155 160
 Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser
 165 170 175
 Asn Leu Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu
 180 185 190
 Leu Pro Pro Val Cys Cys Asp Ile Asp Ile
 195 200

<210> 5
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide.

<400> 5
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31

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide.

<400> 6
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<210> 7
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide specific to pCI-neo
plasmid vector.

<400> 7
ggctagagta cttaatacga ctactatag gc 32

<210> 8
<211> 31
<212> DNA
<213> Homo sapiens

<400> 8
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<210> 9
<211> 56
<212> PRT
<213> Homo sapiens

<400> 9
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Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser Asn Leu
20 25 30
Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu Leu Pro
35 40 45
Pro Val Cys Cys Asp Ile Asp Ile
50 55

<210> 10
<211> 168
<212> DNA
<213> Homo sapiens

<400> 10
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gtgaagatgc cctctccacc atgggaatcc aatctgttgc agtctccttc aagcattctg 120
tcgaccctgg atgttgaatt gccacctggt tgctgtgaca tagatatt 168

<210> 11
<211> 16

<212> DNA
<213> Artificial Sequence

<220>
<223> Anchored primer sequence.

<400> 11
aagctttttt tttttg

16

<210> 12
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Arbitrary primer sequence.

<400> 12
aagcttgctg ctc

13

<210> 13
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> n = a, g, or c; Anchored primer sequence.

<400> 13
aagctttttt tttttt

16

<210> 14
<211> 194
<212> PRT
<213> Mus musculus

<400> 14
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Arg Leu Ala Ser Lys Asp Gly Leu Lys Leu Gly Thr Gly Val Lys Ala
20 25 30
Leu Asp Gly Lys Leu Gln Val Ser Thr Pro Arg Val Gly Lys Val Phe
35 40 45
Asn Ala Pro Ala Val Pro Lys Ala Ser Arg Lys Ala Leu Gly Thr Val
50 55 60
Asn Arg Val Ala Glu Lys Pro Met Lys Thr Gly Lys Pro Leu Gln Pro
65 70 75 80
Lys Gln Pro Thr Leu Thr Gly Lys Lys Ile Thr Glu Lys Ser Thr Lys
85 90 95
Thr Gln Ser Ser Val Pro Ala Pro Asp Asp Ala Tyr Pro Glu Ile Glu
100 105 110
Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Asp Leu Pro Glu Glu His
115 120 125
Gln Ile Ser Leu Leu Pro Leu Asn Gly Val Pro Leu Ile Thr Leu Asn
130 135 140

Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Gly Pro Pro Ser Pro
 145 150 155 160
 Leu Lys Thr Pro Phe Leu Ser Trp Glu Ser Asp Pro Lys Pro Pro Ser
 165 170 175
 Ala Leu Ser Thr Leu Asp Val Glu Leu Pro Pro Val Cys Tyr Asp Ala
 180 185 190
 Asp Ile

<210> 15
 <211> 945
 <212> DNA
 <213> Mus musculus

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<210> 16
 <211> 56
 <212> PRT
 <213> Rattus rattus

<400> 16
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 Pro Pro Ser Pro Leu Gln Lys Pro Phe Leu Pro Trp Glu Ser Asp Pro
 20 25 30
 Leu Pro Ser Pro Pro Ser Ala Leu Ser Ala Leu Asp Val Glu Leu Pro
 35 40 45
 Pro Val Cys Tyr Asp Ala Asp Ile
 50 55

<210> 17
 <211> 56
 <212> PRT
 <213> Mus musculus

<400> 17

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Ile Thr Leu Asn Glu Gly Leu Glu Lys Leu Leu His Leu Gly
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 Leu Tyr Ser Pro Pro Ser Ala Leu Ser Thr Leu Asp Val Glu Leu Pro
 35 40 45
 Pro Val Cys Tyr Asp Ala Asp Ile
 50 55

<210> 18
 <211> 168
 <212> DNA
 <213> Rattus rattus

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<210> 19
 <211> 168
 <212> DNA
 <213> Mus musculus

<400> 19
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